Weekly Report 1

Sddec24\_04

**Weekly Summary**:

Meeting with Sukup contact:

-Sukup provided PCB and RTDs that we will be testing

-Would like ability to add new test benches in future

-Will be used in production and as a development desk tool

-Develop GUI that has “pass/fail” and description of “how fail and value”

-Implement ability to ‘fake’ a temperature reading to the board

-Can accept multiple types of RTDs (Mainly PT1000 & PT100)

-Test to make sure SW1,SW3,SW4,SW5 are switched to correct setting

-Consider powering PCB from a laptop charger

-Expected temp range ~32oF to ~250oF

-Hold monthly meeting with Sukup contact

-No real size requirements, but try for desktop size (average oscilloscope size)

-Add handle as time allows

-Can make dust/weather proof if time allows

**Past week accomplishments:**

Team Member 1(Justin): Met with Dana from Sukup and went over specifications and what he expects from the project. Met with the rest of the group to catch Sam up since he wasn’t able to make it to the meeting with Dana as well as start looking for required materials we might need for the project. Trying to find a time to meet with Dr. Neihart but he has not responded yet.

Team Member 2(Tony): Met with Dana and took notes on requirements and specifics that were not mentioned in the project proposal. Also developed a list of necessary parts and research needed, as well as very basic level ideas.

Team Member 3(Sam): I talked to the group since I could not meet with Dana and the group on Thursday due to lab. Was caught up during our weekly meeting on how the meeting went and our project's goals. Files and schematics were shared with me and packet information on project work up until now.

Team member 4(Michael): Met with Dana and discussed the design specifications and requirements. Met with the team and went over next steps and outlook for the project.

**Pending issues:**

Team Member 1:

Team Member 2:

Team Member 3(Sam): Go over Python code and understand the processes being used by Sukup. Discuss project overview and proposal.

Team Member 4(Michael): Read into datasheets for rtd and sensor.

**Individual contributions:**

| **Name** | **Hours this week** | **Hours Cumulative** |
| --- | --- | --- |
| **Tony Haberkorn** | **3** | **3** |
| **Samuel Estrada** | **2** | **2** |
| **Jusin Garden** | **3** | **3** |
| **Michael Hurley** | **3** | **3** |

**Comments and extended discussion**

**Plans for the upcoming week**

Understanding how to interface with the board given. We will be reaching out to Dana to clarify questions on the schematic. Once it is understood how to communicate, we can make selections and order from ETG.

**Summary of weekly advisor meeting:**Established initial contact with professor Niehart regarding our senior design project. Email was sent to discuss our first meeting, go over project proposal, and establish frequency of meetings between us. We were able to speak with professor Niehart and receive feedback on our steps going forward. We now have a set of questions to be answered by our next meeting as well as documentation to find.